

## AMENDMENTS

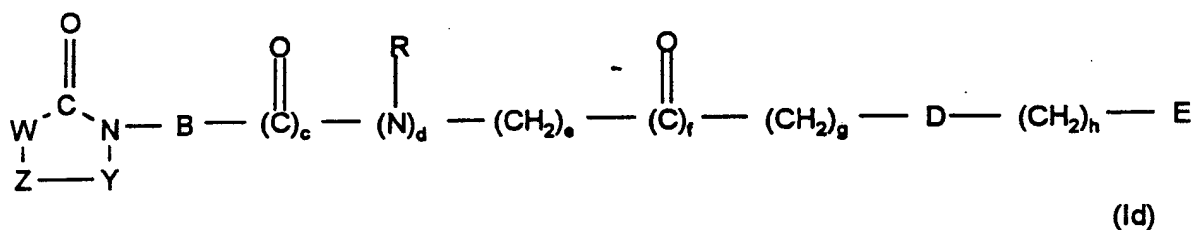
### Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

### Listing of Claims:

Claims 1-28. (canceled)

Claim 29. (currently amended): A compound of the formula Id



### in which wherein

- W is  $\text{R}^1\text{-A-C(R}^{13})$  or  $\text{R}^1\text{-A-CH=C}$ ;
- Y is a carbonyl, thiocarbonyl, or methylene group;
- Z is  $\text{N(R}^0)$ ;
- A is a bivalent radical from the group consisting of (C<sub>1</sub>-C<sub>6</sub>)-alkylene, (C<sub>3</sub>-C<sub>7</sub>)-cycloalkylene, phenylene, phenylene-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, (C<sub>1</sub>-C<sub>6</sub>)-alkylenephenyl, **and** phenylene-(C<sub>2</sub>-C<sub>6</sub>)-alkenyl, or a bivalent radical of a 5- or 6-membered saturated or unsaturated ring which can contain 1 or 2 nitrogen atoms and can be mono- or disubstituted by (C<sub>1</sub>-C<sub>6</sub>)-alkyl or doubly bonded oxygen or sulfur;
- B is a bivalent (C<sub>1</sub>-C<sub>6</sub>)-alkylene radical which is substituted by a radical from the group consisting of (C<sub>1</sub>-C<sub>8</sub>)-alkyl, (C<sub>2</sub>-C<sub>8</sub>)-alkenyl, (C<sub>2</sub>-C<sub>8</sub>)-alkynyl, (C<sub>3</sub>-C<sub>10</sub>)-cycloalkyl, (C<sub>3</sub>-C<sub>10</sub>)-cycloalkyl-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, optionally substituted (C<sub>6</sub>-C<sub>14</sub>)-aryl, (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>6</sub>)-alkyl optionally substituted in the aryl radical, optionally substituted heteroaryl and

- heteroaryl-(C<sub>1</sub>-C<sub>6</sub>)-alkyl optionally substituted in the heteroaryl radical;
- D is C(R<sup>2</sup>)(R<sup>3</sup>), N(R<sup>3</sup>)<sub>2</sub> or CH=C(R<sup>3</sup>);
- E is tetrazolyl, (R<sup>8</sup>O)<sub>2</sub>P(O), HOS(O)<sub>2</sub>, R<sup>9</sup>NHS(O)<sub>2</sub>, or R<sup>10</sup>CO;
- R is hydrogen, (C<sub>1</sub>-C<sub>8</sub>)-alkyl, (C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, optionally substituted (C<sub>6</sub>-C<sub>14</sub>)-aryl, or (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl optionally substituted in the aryl radical;
- R<sup>0</sup> is hydrogen, (C<sub>1</sub>-C<sub>8</sub>)-alkyl, (C<sub>3</sub>-C<sub>12</sub>)-cycloalkyl, (C<sub>3</sub>-C<sub>12</sub>)-cycloalkyl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, (C<sub>6</sub>-C<sub>12</sub>)-bicycloalkyl, (C<sub>6</sub>-C<sub>12</sub>)-bicycloalkyl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, (C<sub>6</sub>-C<sub>12</sub>)-tricycloalkyl, (C<sub>6</sub>-C<sub>12</sub>)-tricycloalkyl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, optionally substituted (C<sub>6</sub>-C<sub>14</sub>)-aryl, (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl optionally substituted in the aryl radical, optionally substituted heteroaryl, heteroaryl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl optionally substituted in the heteroaryl radical, CHO, (C<sub>1</sub>-C<sub>8</sub>)-alkyl-CO, (C<sub>3</sub>-C<sub>12</sub>)-cycloalkyl-CO, (C<sub>3</sub>-C<sub>12</sub>)-cycloalkyl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl-CO, (C<sub>6</sub>-C<sub>12</sub>)-bicycloalkyl-CO, (C<sub>6</sub>-C<sub>12</sub>)-bicycloalkyl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl-CO, (C<sub>6</sub>-C<sub>12</sub>)-tricycloalkyl-CO, (C<sub>6</sub>-C<sub>12</sub>)-tricycloalkyl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl-CO, optionally substituted (C<sub>6</sub>-C<sub>14</sub>)-aryl-CO, (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl-CO optionally substituted in the aryl radical, optionally substituted heteroaryl-CO, heteroaryl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl-CO optionally substituted in the heteroaryl radical, (C<sub>1</sub>-C<sub>8</sub>)-alkyl-S(O)<sub>n</sub>, (C<sub>3</sub>-C<sub>12</sub>)-cycloalkyl-S(O)<sub>n</sub>, (C<sub>3</sub>-C<sub>12</sub>)-cycloalkyl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl-S(O)<sub>n</sub>, (C<sub>6</sub>-C<sub>12</sub>)-bicycloalkyl-S(O)<sub>n</sub>, (C<sub>6</sub>-C<sub>12</sub>)-bicycloalkyl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl-S(O)<sub>n</sub>, (C<sub>6</sub>-C<sub>12</sub>)-tricycloalkyl-S(O)<sub>n</sub>, (C<sub>6</sub>-C<sub>12</sub>)-tricycloalkyl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl-S(O)<sub>n</sub>, optionally substituted (C<sub>6</sub>-C<sub>14</sub>)-aryl-S(O)<sub>n</sub>, (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl-S(O)<sub>n</sub> optionally substituted in the aryl radical, optionally substituted heteroaryl-[ ]S(O)<sub>n</sub> or heteroaryl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl-S(O)<sub>n</sub> optionally substituted in the heteroaryl radical, where in n is 1 or 2;
- R<sup>1</sup> is X-NH-C(=NH)-(CH<sub>2</sub>)<sub>p</sub> or X<sup>1</sup>-NH-(CH<sub>2</sub>)<sub>p</sub>, where in p is 0, 1, 2, or 3;
- X is hydrogen, (C<sub>1</sub>-C<sub>6</sub>)-alkyl, (C<sub>1</sub>-C<sub>6</sub>)-alkylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)-alkoxycarbonyl, (C<sub>1</sub>-C<sub>18</sub>)-alkylcarbonyloxy-(C<sub>1</sub>-C<sub>6</sub>)-alkoxycarbonyl, optionally substituted (C<sub>6</sub>-C<sub>14</sub>)-arylcarbonyl, optionally substituted (C<sub>6</sub>-C<sub>14</sub>)-aryloxycarbonyl, (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>6</sub>)-alkoxycarbonyl which can also be substituted in the aryl radical, (R<sup>8</sup>O)<sub>2</sub>P(O), cyano, hydroxyl, (C<sub>1</sub>-C<sub>6</sub>)-alkoxy, (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>6</sub>)-alkoxy which can also be substituted in the aryl radical, or amino;
- X<sup>1</sup> has one of the meanings of X or is R'-NH-C(=N-R''), where in R' and R'', independently of one another, have the meanings of X;

- $R^2$  is hydrogen,  $(C_1-C_8)$ -alkyl, optionally substituted  $(C_6-C_{14})$ -aryl,  $(C_6-C_{14})$ -aryl- $(C_1-C_8)$ -alkyl optionally substituted in the aryl radical or  $(C_3-C_8)$ -cycloalkyl;
- $R^3$  is hydrogen,  $(C_1-C_8)$ -alkyl, optionally substituted  $(C_6-C_{14})$ -aryl,  $(C_6-C_{14})$ -aryl- $(C_1-C_8)$ -alkyl optionally substituted in the aryl radical,  $(C_3-C_8)$ -cycloalkyl,  $(C_2-C_8)$ -alkenyl,  $(C_2-C_8)$ -alkynyl,  $(C_2-C_8)$ -alkenylcarbonyl,  $(C_2-C_8)$ -alkynylcarbonyl, pyridyl,  $R^{11}NH$ ,  $R^4CO$ ,  $COOR^4$ ,  $CON(CH_3)R^{14}$ ,  $CONHR^{14}$ ,  $CSNHR^{14}$ ,  $COOR^{15}$ ,  $CON(CH_3)R^{15}$ , or  $CONHR^{15}$ ;
- $R^4$  is hydrogen or  $(C_1-C_{28})$ -alkyl which can optionally be mono- or polysubstituted by identical or different radicals  $R^4$ ;
- $R^4$  is hydroxyl, hydroxycarbonyl, aminocarbonyl, mono- or di- $((C_1-C_{18})$ -alkyl)aminocarbonyl, amino- $(C_2-C_{18})$ -alkylaminocarbonyl, amino- $(C_1-C_3)$ -alkylphenyl- $(C_1-C_3)$ -alkylaminocarbonyl,  $(C_1-C_{18})$ -alkylcarbonylamino- $(C_1-C_3)$ -alkylphenyl- $(C_1-C_3)$ -alkylaminocarbonyl,  $(C_1-C_{18})$ -alkylcarbonylamino- $(C_2-C_{18})$ -alkylaminocarbonyl,  $(C_6-C_{14})$ -aryl- $(C_1-C_8)$ -alkoxycarbonyl which can also be substituted in the aryl radical, amino, mercapto,  $(C_1-C_{18})$ -alkoxy,  $(C_1-C_{18})$ -alkoxycarbonyl, optionally substituted  $(C_3-C_8)$ -cycloalkyl, halogen, nitro, trifluoromethyl, or the radical  $R^5$ ;
- $R^5$  is optionally substituted  $(C_6-C_{14})$ -aryl,  $(C_6-C_{14})$ -aryl- $(C_1-C_8)$ -alkyl optionally substituted in the aryl radical, a mono- or bicyclic 5- to 12-membered heterocyclic ring which can be aromatic, partially hydrogenated, or completely hydrogenated, and which can contain one, two, or three identical or different heteroatoms from the group consisting of nitrogen, oxygen, and sulfur, a radical  $R^6$  or a radical  $R^6CO$ -, where in the aryl radical and, independently thereof, the heterocyclic radical can be mono- or polysubstituted by identical or different radicals from the group consisting of  $(C_1-C_{18})$ -alkyl,  $(C_1-C_{18})$ -alkoxy, halogen, nitro, amino, and trifluoromethyl;
- $R^6$  is  $R^7R^8N$ ,  $R^7O$  or  $R^7S$ , or an amino acid side chain, a natural or unnatural amino acid, imino acid, optionally  $N$ - $(C_1-C_8)$ -alkylated or  $N$ - $((C_6-C_{14})$ -aryl- $(C_1-C_8)$ -alkylated) azaamino acid or a dipeptide radical which can also be substituted in the aryl radical and/or ~~in which~~ wherein the peptide bond can be reduced to  $-NH-CH_2-$ , and their esters and amides, where in hydrogen or hydroxymethyl can optionally stand in place of free functional groups and/or where free functional groups can be protected by protective

groups customary in peptide chemistry;

- R<sup>7</sup> is hydrogen, (C<sub>1</sub>-C<sub>18</sub>)-alkyl, (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, (C<sub>1</sub>-C<sub>18</sub>)-alkylcarbonyl, (C<sub>1</sub>-C<sub>18</sub>)-alkoxycarbonyl, (C<sub>6</sub>-C<sub>14</sub>)-arylcarbonyl, (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>8</sub>)-alkylcarbonyl or (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>18</sub>)-alkyloxycarbonyl, wherein the alkyl groups can optionally be substituted by an amino group and/or where the aryl radicals can be mono- or polysubstituted by identical or different radicals from the group consisting of (C<sub>1</sub>-C<sub>8</sub>)-alkyl, (C<sub>1</sub>-C<sub>8</sub>)-alkoxy, halogen, nitro, amino and trifluoromethyl, or is a natural or unnatural amino acid, imino acid, optionally N-(C<sub>1</sub>-C<sub>8</sub>)-alkylated or N-((C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>8</sub>)-alkylated) azaamino acid or a dipeptide radical which can also be substituted in the aryl radical and/or in-which wherein the peptide bond can be reduced to -NH-CH<sub>2</sub>-;
- R<sup>8</sup> is hydrogen, (C<sub>1</sub>-C<sub>18</sub>)-alkyl, optionally substituted (C<sub>6</sub>-C<sub>14</sub>)-aryl or (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl which can also be substituted in the aryl radical;
- R<sup>9</sup> is hydrogen, aminocarbonyl, (C<sub>1</sub>-C<sub>18</sub>)-alkylaminocarbonyl, (C<sub>3</sub>-C<sub>8</sub>)-cycloalkylaminocarbonyl, optionally substituted (C<sub>6</sub>-C<sub>14</sub>)-arylaminocarbonyl, (C<sub>1</sub>-C<sub>18</sub>)-alkyl, optionally substituted (C<sub>6</sub>-C<sub>14</sub>)-aryl or (C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl;
- R<sup>10</sup> is hydroxyl, (C<sub>1</sub>-C<sub>18</sub>)-alkoxy, (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>8</sub>)-alkoxy which can also be substituted in the aryl radical, optionally substituted (C<sub>6</sub>-C<sub>14</sub>)-aryloxy, amino or mono- or di-((C<sub>1</sub>-C<sub>18</sub>)-alkyl)amino;
- R<sup>11</sup> is hydrogen, (C<sub>1</sub>-C<sub>18</sub>)-alkyl, R<sup>12</sup>CO, optionally substituted (C<sub>6</sub>-C<sub>14</sub>)-aryl-S(O)<sub>2</sub>, (C<sub>1</sub>-C<sub>18</sub>)-alkyl-S(O)<sub>2</sub>, (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl optionally substituted in the aryl radical or R<sup>9</sup>NHS(O)<sub>2</sub>;
- R<sup>12</sup> is hydrogen, (C<sub>1</sub>-C<sub>18</sub>)-alkyl, (C<sub>2</sub>-C<sub>8</sub>)-alkenyl, (C<sub>2</sub>-C<sub>8</sub>)-alkynyl, optionally substituted (C<sub>6</sub>-C<sub>14</sub>)-aryl, (C<sub>1</sub>-C<sub>18</sub>)-alkoxy, (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>8</sub>)-alkoxy which can also be substituted in the aryl radical, optionally substituted (C<sub>6</sub>-C<sub>14</sub>)-aryloxy, amino or mono- or di-((C<sub>1</sub>-C<sub>18</sub>)-alkyl)amino;
- R<sup>13</sup> is hydrogen, (C<sub>1</sub>-C<sub>6</sub>)-alkyl, (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl optionally substituted in the aryl radical or (C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl;
- R<sup>14</sup> is hydrogen or (C<sub>1</sub>-C<sub>28</sub>)-alkyl which can optionally be mono- or polysubstituted by identical or different radicals from the group consisting of hydroxyl, hydroxycarbonyl, aminocarbonyl, mono- or di-((C<sub>1</sub>-C<sub>18</sub>)-alkyl)aminocarbonyl, amino-(C<sub>2</sub>-C<sub>18</sub>)-

alkylaminocarbonyl, amino-(C<sub>1</sub>-C<sub>3</sub>)-alkylphenyl-(C<sub>1</sub>-C<sub>3</sub>)-alkylaminocarbonyl, (C<sub>1</sub>-C<sub>18</sub>)-alkylcarbonylamino-(C<sub>1</sub>-C<sub>3</sub>)-alkylphenyl-(C<sub>1</sub>-C<sub>3</sub>)-alkylaminocarbonyl, (C<sub>1</sub>-C<sub>18</sub>)-alkylcarbonylamino-(C<sub>2</sub>-C<sub>18</sub>)-alkylaminocarbonyl, (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>8</sub>)-alkoxycarbonyl which can also be substituted in the aryl radical, amino, mercapto, (C<sub>1</sub>-C<sub>18</sub>)-alkoxy, (C<sub>1</sub>-C<sub>18</sub>)-alkoxycarbonyl, optionally substituted (C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, HOS(O)<sub>2</sub>-(C<sub>1</sub>-C<sub>3</sub>)-alkyl, R<sup>9</sup>NHS(O)<sub>2</sub>-(C<sub>1</sub>-C<sub>3</sub>)-alkyl, (R<sup>8</sup>O)<sub>2</sub>P(O)-(C<sub>1</sub>-C<sub>3</sub>)-alkyl, tetrazolyl-(C<sub>1</sub>-C<sub>3</sub>)-alkyl, halogen, nitro, trifluoromethyl and R<sup>5</sup>;

R<sup>15</sup> is R<sup>16</sup>-(C<sub>1</sub>-C<sub>6</sub>)-alkyl or R<sup>16</sup>;

R<sup>16</sup> is a 6- to 24-membered bicyclic or tricyclic radical which is saturated or partially unsaturated and which can also contain one to four identical or different heteroatoms from the group consisting of nitrogen, oxygen, and sulfur and which can also be substituted by one or more identical or different substituents from the group consisting of (C<sub>1</sub>-C<sub>4</sub>)-alkyl and oxo;

c, d<sub>1</sub> and f<sub>1</sub> independently of one another, are 0 or 1, but cannot all simultaneously be 0;

e, g<sub>1</sub> and h<sub>1</sub> independently of one another, are 0, 1, 2, 3, 4, 5, or 6;

in all its stereoisomeric forms and mixtures thereof in any ratio, and/or its physiologically tolerable salts.

Claim 30. (currently amended) **[[A]] The compound of ~~the formula I~~ as claimed in claim 29, ~~in which simultaneously wherein~~**

W is R<sup>1</sup>-A-C(R<sup>13</sup>);

Y is a carbonyl group;

~~Z~~ is N(R<sup>9</sup>);

A is a bivalent radical from the group consisting of (C<sub>3</sub>-C<sub>7</sub>)-cycloalkylene, phenylene, phenylene-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, (C<sub>1</sub>-C<sub>6</sub>)-alkylenephenyl **[[or]] and** a bivalent radical of a 5- or 6-membered saturated or unsaturated ring which can contain 1 or 2 nitrogen atoms and can be mono- or disubstituted by (C<sub>1</sub>-C<sub>6</sub>)-alkyl or doubly bonded oxygen or sulfur;

B is a bivalent methylene radical or ethylene radical which is substituted by a radical from the group consisting of (C<sub>1</sub>-C<sub>8</sub>)-alkyl, (C<sub>2</sub>-C<sub>8</sub>)-alkenyl, (C<sub>2</sub>-C<sub>8</sub>)-alkynyl, (C<sub>3</sub>-C<sub>10</sub>)-cycloalkyl, (C<sub>3</sub>-C<sub>10</sub>)-cycloalkyl-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, optionally substituted (C<sub>6</sub>-C<sub>14</sub>)-aryl, (C<sub>6</sub>-

- $C_{14}$ )-aryl-( $C_1$ - $C_6$ )-alkyl optionally substituted in the aryl radical, optionally substituted heteroaryl, and heteroaryl-( $C_1$ - $C_6$ )-alkyl optionally substituted in the heteroaryl radical;
- D is  $C(R^2)(R^3)$ ;
- E is tetrazolyl or  $R^{10}CO$ ;
- R is hydrogen or ( $C_1$ - $C_8$ )-alkyl;
- $R^0$  — ~~is hydrogen, ( $C_1$ - $C_8$ )-alkyl, ( $C_3$ - $C_{12}$ )-cycloalkyl, ( $C_3$ - $C_{12}$ )-cycloalkyl-( $C_1$ - $C_8$ )-alkyl, ( $C_6$ - $C_{12}$ )-bicycloalkyl, ( $C_6$ - $C_{12}$ )-bicycloalkyl-( $C_1$ - $C_8$ )-alkyl, ( $C_6$ - $C_{12}$ )-tricycloalkyl, ( $C_6$ - $C_{12}$ )-tricycloalkyl-( $C_1$ - $C_8$ )-alkyl, optionally substituted ( $C_6$ - $C_{14}$ )-aryl, ( $C_6$ - $C_{14}$ )-aryl-( $C_1$ - $C_8$ )-alkyl optionally substituted in the aryl radical, optionally substituted heteroaryl, heteroaryl-( $C_1$ - $C_8$ )-alkyl optionally substituted in the heteroaryl radical,  $CHO$ , ( $C_1$ - $C_8$ )-alkyl- $CO$ , ( $C_3$ - $C_{12}$ )-cycloalkyl- $CO$ , ( $C_3$ - $C_{12}$ )-cycloalkyl-( $C_1$ - $C_8$ )-alkyl- $CO$ , ( $C_6$ - $C_{12}$ )-bicycloalkyl- $CO$ , ( $C_6$ - $C_{12}$ )-bicycloalkyl-( $C_1$ - $C_8$ )-alkyl- $CO$ , ( $C_6$ - $C_{12}$ )-tricycloalkyl- $CO$ , ( $C_6$ - $C_{12}$ )-tricycloalkyl-( $C_1$ - $C_8$ )-alkyl- $CO$ , optionally substituted ( $C_6$ - $C_{14}$ )-aryl- $CO$ , ( $C_6$ - $C_{14}$ )-aryl-( $C_1$ - $C_8$ )-alkyl- $CO$  optionally substituted in the aryl radical, optionally substituted heteroaryl- $CO$ , heteroaryl-( $C_1$ - $C_8$ )-alkyl- $CO$  optionally substituted in the heteroaryl radical, ( $C_1$ - $C_8$ )-alkyl- $S(O)_n$ , ( $C_3$ - $C_{12}$ )-cycloalkyl- $S(O)_n$ , ( $C_3$ - $C_{12}$ )-cycloalkyl-( $C_1$ - $C_8$ )-alkyl- $S(O)_n$ , ( $C_6$ - $C_{12}$ )-bicycloalkyl- $S(O)_n$ , ( $C_6$ - $C_{12}$ )-bicycloalkyl-( $C_1$ - $C_8$ )-alkyl- $S(O)_n$ , ( $C_6$ - $C_{12}$ )-tricycloalkyl- $S(O)_n$ , ( $C_6$ - $C_{12}$ )-tricycloalkyl-( $C_1$ - $C_8$ )-alkyl- $S(O)_n$ , optionally substituted ( $C_6$ - $C_{14}$ )-aryl- $S(O)_n$ , ( $C_6$ - $C_{14}$ )-aryl-( $C_1$ - $C_8$ )-alkyl- $S(O)_n$  optionally substituted in the aryl radical, optionally substituted heteroaryl- $S(O)_n$  or heteroaryl-( $C_1$ - $C_8$ )-alkyl- $S(O)_n$  optionally substituted in the heteroaryl radical, where n is 1 or 2;~~
- $R^1$  — ~~is  $X-NH-C(=NH)-(CH_2)_p$  or  $X^1-NH-(CH_2)_p$ , where p is 0, 1, 2 or 3;~~
- X is hydrogen, ( $C_1$ - $C_6$ )-alkyl, ( $C_1$ - $C_6$ )-alkylcarbonyl, ( $C_1$ - $C_6$ )-alkoxycarbonyl, ( $C_1$ - $C_{18}$ )-alkylcarbonyloxy-( $C_1$ - $C_6$ )-alkoxycarbonyl, optionally substituted ( $C_6$ - $C_{14}$ )-arylcarbonyl, optionally substituted ( $C_6$ - $C_{14}$ )-aryloxycarbonyl, ( $C_6$ - $C_{14}$ )-aryl-( $C_1$ - $C_6$ )-alkoxycarbonyl which can also be substituted in the aryl radical, cyano, hydroxyl, ( $C_1$ - $C_6$ )-alkoxy, ( $C_6$ - $C_{14}$ )-aryl-( $C_1$ - $C_6$ )-alkoxy which can also be substituted in the aryl radical, or amino;
- $X^1$  — ~~has one of the meanings of X or is  $R^1-NH-C(=N-R'')$ , where  $R'$  and  $R''$  independently of one another have the meanings of X;~~

- R<sup>2</sup> is hydrogen or (C<sub>1</sub>-C<sub>8</sub>)-alkyl;
- R<sup>3</sup> is hydrogen, (C<sub>1</sub>-C<sub>8</sub>)-alkyl, optionally substituted (C<sub>6</sub>-C<sub>14</sub>)-aryl, (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl optionally substituted in the aryl radical, (C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, (C<sub>2</sub>-C<sub>8</sub>)-alkenyl, (C<sub>2</sub>-C<sub>8</sub>)-alkynyl, (C<sub>2</sub>-C<sub>8</sub>)-alkenylcarbonyl, (C<sub>2</sub>-C<sub>8</sub>)-alkynylcarbonyl, pyridyl, R<sup>11</sup>NH, CON(CH<sub>3</sub>)R<sup>14</sup>, CONHR<sup>14</sup>, CON(CH<sub>3</sub>)R<sup>15</sup>, or CONHR<sup>15</sup>;
- R<sup>5</sup> is optionally substituted (C<sub>6</sub>-C<sub>14</sub>)-aryl, (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>8</sub>)-alkyl optionally substituted in the aryl radical, a mono- or bicyclic 5- to 12-membered heterocyclic ring which can be aromatic, partially hydrogenated, or completely hydrogenated and which can contain one, two, or three identical or different heteroatoms from the group consisting of nitrogen, oxygen and sulfur, or a radical R<sup>6</sup>CO-, where in the aryl radical and, independently thereof, the heterocyclic radical, can be mono- or polysubstituted by identical or different radicals from the group consisting of (C<sub>1</sub>-C<sub>8</sub>)-alkyl, (C<sub>1</sub>-C<sub>8</sub>)-alkoxy, halogen, nitro, amino, or trifluoromethyl;
- R<sup>6</sup> is a natural or unnatural amino acid, imino acid, optionally N-(C<sub>1</sub>-C<sub>8</sub>)-alkylated or N-((C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>8</sub>)-alkylated) azaamino acid or a dipeptide radical which can also be substituted in the aryl radical, and their esters and amides, where in free functional groups can be protected by protective groups customary in peptide chemistry;
- ~~R<sup>10</sup> is hydroxyl, (C<sub>1</sub>-C<sub>18</sub>)-alkoxy, (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>8</sub>)-alkoxy which can also be substituted in the aryl radical, optionally substituted (C<sub>6</sub>-C<sub>14</sub>)-aryloxy, amino or mono- or di-((C<sub>1</sub>-C<sub>18</sub>)-alkyl)amino;~~
- R<sup>11</sup> is R<sup>12</sup>CO, optionally substituted (C<sub>6</sub>-C<sub>14</sub>)-aryl-S(O)<sub>2</sub> or (C<sub>1</sub>-C<sub>18</sub>)-alkyl-S(O)<sub>2</sub>;
- R<sup>12</sup> is hydrogen, (C<sub>1</sub>-C<sub>18</sub>)-alkyl, (C<sub>2</sub>-C<sub>8</sub>)-alkenyl, (C<sub>2</sub>-C<sub>8</sub>)-alkynyl, optionally substituted (C<sub>6</sub>-C<sub>14</sub>)-aryl, (C<sub>1</sub>-C<sub>18</sub>)-alkoxy, (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>8</sub>)-alkoxy which can also be substituted in the aryl radical or optionally substituted (C<sub>6</sub>-C<sub>14</sub>)-aryloxy;
- R<sup>13</sup> is hydrogen or (C<sub>1</sub>-C<sub>4</sub>)-alkyl;
- R<sup>14</sup> is (C<sub>1</sub>-C<sub>10</sub>)-alkyl which can optionally be mono- or polysubstituted by identical or different radicals from the group consisting of hydroxyl, hydroxycarbonyl, aminocarbonyl, mono- or di-((C<sub>1</sub>-C<sub>18</sub>)-alkyl)amino-carbonyl, (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>8</sub>)-alkoxycarbonyl which can also be substituted in the aryl radical, (C<sub>1</sub>-C<sub>8</sub>)-alkoxy, (C<sub>1</sub>-C<sub>8</sub>)-alkoxycarbonyl, optionally substituted (C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, tetrazolyl-(C<sub>1</sub>-C<sub>3</sub>)-alkyl,

trifluoromethyl and R<sup>5</sup>;

**R<sup>15</sup>—is R<sup>16</sup>-(C<sub>1</sub>-C<sub>6</sub>)-alkyl or R<sup>16</sup>;**

**R<sup>16</sup>—is a 6- to 24-membered bicyclic or tricyclic radical which is saturated or partially unsaturated and which can also contain one to four identical or different heteroatoms from the group consisting of nitrogen, oxygen and sulfur and which can also be substituted by one or more identical or different substituents from the group consisting of (C<sub>1</sub>-C<sub>4</sub>)-alkyl and oxo;**

c and d are 1, and f is 0;

e and h, independently of one another, are 0 or 1, and g is 0;

**in all its stereoisomeric forms and mixtures thereof in any ratio, and/or its physiologically tolerable salts.**

Claim 31. (currently amended) **[[A]] The compound of ~~the formula Id as claimed in~~ claim 29, in which wherein the radical by which the group**

**B is substituted ~~[[is]]~~ by a (C<sub>1</sub>-C<sub>8</sub>)-alkyl radical, ~~in all its stereoisomeric forms and mixtures thereof in any ratio, and/or its physiologically tolerable salts.~~**

Claim 32. (currently amended): A pharmaceutical **preparation composition** **[[which]]** compris**[[es]]ing** one or more compounds of ~~the formula Id as claimed in~~ claim 29 and/or ~~their physiologically tolerable salts in addition to one or more~~ a pharmaceutically acceptable ~~innocuous carriers and/or additives.~~

Claims 33-38. (canceled)

Claim 39. (new): The compound of claim 29, wherein

E is R<sup>10</sup>CO; and

R<sup>0</sup> is (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>4</sub>)-alkyl optionally substituted in the aryl radical.



Claim 40. (new): A method of treating a disease or disorder involving inflammation, comprising administering to a subject in need thereof an effective amount of the pharmaceutical composition of claim 32.

Claim 41. (new): A method of antagonizing VLA-4, comprising administering to a subject in need thereof an effective amount of the pharmaceutical composition of claim 32.

Claim 42. (new): A method of treating a disease or disorder selected from the group consisting of rheumatoid arthritis, inflammatory bowel disease, systemic lupus erythematosus, inflammatory disorders of the central nervous system, asthma, allergies, cardiovascular disorders, arteriosclerosis, multiple sclerosis, restenoses, diabetes, damage to organ transplants, tumor growth, tumor metastasis, melanoma, lymphoma, and malaria, comprising administering to a subject in need thereof an effective amount of the pharmaceutical composition of claim 32.

Claim 43. (new): A method of treating a disease or disorder, wherein said disease or disorder exhibits an abnormally large amount of leucocyte adhesion and/or migration, comprising administering to a subject in need thereof an effective amount of the pharmaceutical composition of claim 32.